

TWO NEW SUBSPECIES OF *LOXURA CASSIOPEIA* DISTANT
FROM PALAWAN AND MINDANAO
(LEPIDOPTERA: LYCAENIDAE)

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Loxura cassiopeia Distant was recognized to be confined to Neomalaya, however I have found some specimens belonging to *L. cassiopeia* from Palawan and Mindanao, the Philippines, in the collection of the Osaka Museum of Natural History. After a careful study on these specimens, I describe them as two new subspecies.

Loxura cassiopeia takioi H. Hayashi, ssp. nov. (Figs. 1-2)

♂. Upperside reddish brown, suffused with dark brown at base on both wings and feebly at margin on hindwing. Forewing black border dilated at inner angle. Tail whitish yellow. Underside ochreous yellow. Cell-end stripe obscure. Forewing post-discal band dislocated at vein 4. Hindwing post-discal band arranged straight.

Forewing length 18 mm.

Distribution: Palawan

Holotype ♂, Nogtinbau, Palawan, 15 December 1969, Y. Honda leg. Paratype ♂, Nogtinbau, Palawan, 1 December 1969, Y. Honda leg.

The holotype and paratype are preserved in the Osaka Museum of Natural History.

This new subspecies differs from ssp. *cassiopeia* Distant distributed in Malaya and ssp. *amatica* Fruhstorfer distributed in Borneo in the respects given in Table 1.

I name this new subspecies after Mr. Masuo Takio, ex-curator of the Entomological Museum of Osaka Prefectural Mino Park, who gave me an interest in lepidopterology for the first time and kind guidance during my junior-high-school days.

Loxura cassiopeia owadai H. Hayashi, ssp. nov. (Figs. 3-4)

♂. Upperside reddish orange, slightly suffused with dark brown at base. Forewing black border comparatively narrow, becoming thin towards inner angle. Tail yellow. Underside ochreous yellow. Cell-end stripe indistinct. Forewing post-discal band vestigial. Hindwing post-discal band not obscure, and arranged straight.

Forewing length 18 mm.

Distribution: Mindanao

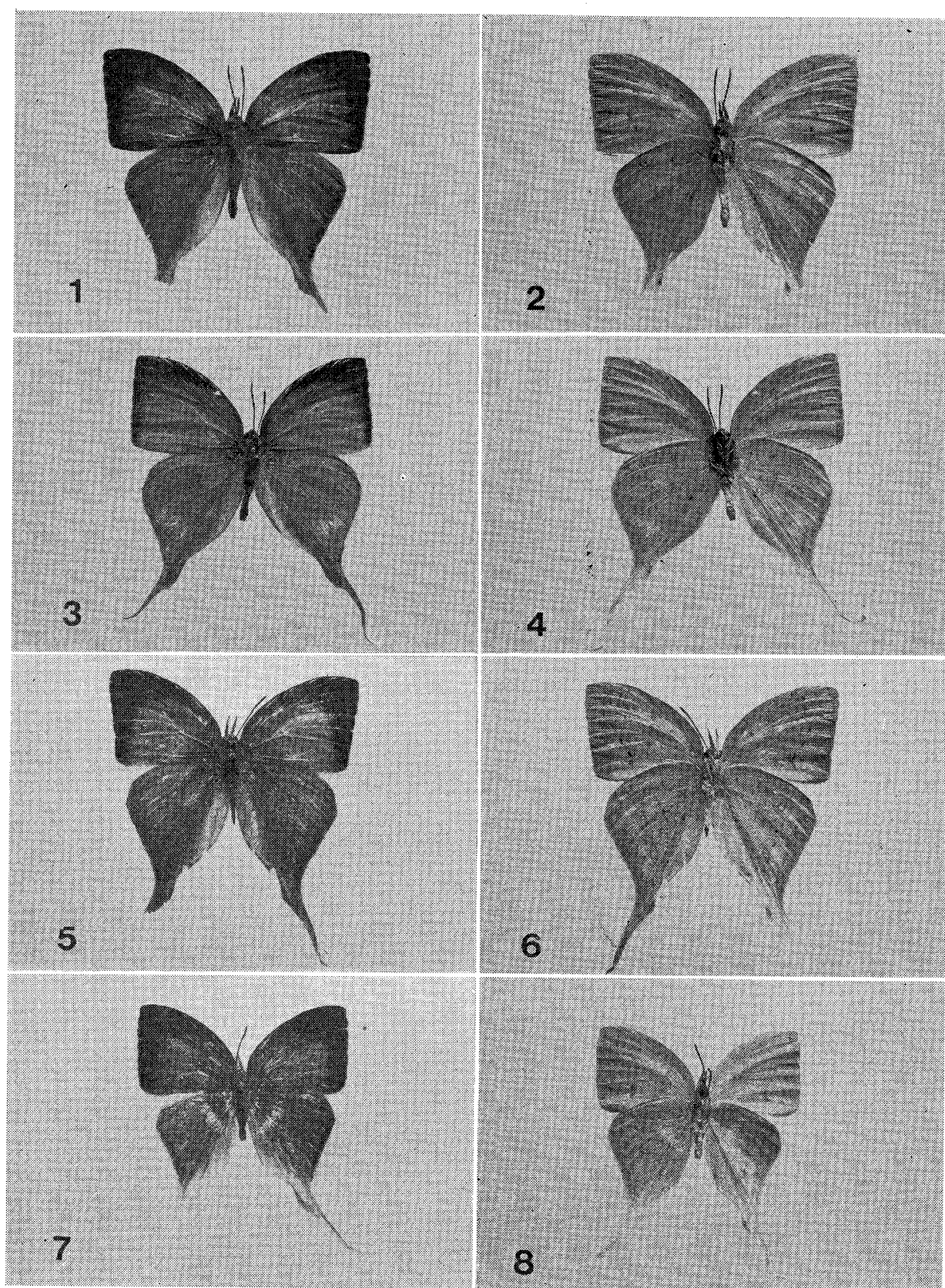
Holotype ♂, Tungkalan, Mindanao, 16 March 1969, M. Ôwada leg.

The holotype is preserved in the Osaka Museum of Natural History.

The differences between this new subspecies and the other subspecies of concerned areas are also shown in Table 1.

The subspecific name is dedicated to Mr. Mamoru Ôwada who collected the specimen.

I acknowledge my sincere gratitude to Mr. Isamu Hiura in the Osaka Museum of Natural History who gave me the facilities for examining the specimens. Thanks are also due to Messrs. Yasuzô Honda and Mamoru Ôwada who collected the butterflies in Palawan and Mindanao.



Figs. 1—2. *Loxura cassiopeia takioi* ssp. nov., holotype ♂.
 Figs. 3—4. *L. cassiopeia owatai* ssp. nov., holotype ♂.
 Figs. 5—6. *L. cassiopeia cassiopeia* Distant.
 Figs. 7—8. *L. cassiopeia amatica* Fruhstorfer.

Table 1. A comparison among *Loxura cassiopeia cassiopeia* Distant, *L. c. amatica* Fruhstorfer, *L. c. takioi* ssp. nov. and *L. c. owadai* ssp. nov.

		<i>L. c. cassiopeia</i>	<i>L. c. amatica</i>	<i>L. c. takioi</i> ssp. nov.	<i>L. c. owadai</i> ssp. nov.
Upperside	Ground colour	reddish ochreous	reddish brown	reddish brown, but lighter than ssp. <i>amatica</i>	reddish orange
	Fore-wing black border	broad, becoming thin towards inner angle	broad, dilated at inner angle	medium sized, dilated at inner angle	narrow, becoming thin towards inner angle
	Hind-wing	base and margin suffused with dark brown	most part strongly suffused with dark brown	base and margin suffused with dark brown	base slightly suffused with dark brown
	Tail	pale yellow, slightly powdered with ochre	whitish yellow	whitish yellow	yellow
Underside	Fore-wing post-discal band	consisting of large spots	consisting of medium sized spots	consisting of small spots	vestigial
	Hind-wing post-discal band	consisting of large spots	consisting of medium sized spots	consisting of the smallest spots	consisting of smaller spots than ssp. <i>amatica</i>

ジョウザンミドリシジミの homoeosis の 1 例

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日本産蝶類にあらわれた homoeosis については、今までに数例の報告があるが、ゼフィルスゼフィルスの 1 例を発表する。個体はジョウザンミドリシジミの♂で、右前翅裏面第 3 室基部に橙色斑の一部と、その中の黒点が現れている。

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滋賀県、比良連峰、八雲が原～武奈岳間道

筆者採集、所蔵

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